

Aluminum Foundries (Except Die-Casting): 2002

Issued August 2004

EC02-311-331524

2002 Economic Census

Manufacturing

Industry Series



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U.S. Department of Commerce
Economics and Statistics Administration
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Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
331524, Aluminum foundries (except die- casting)	508	542	29 108	1 026 868	23 623	48 680	744 991	2 280 741	1 688 171	3 962 200	152 221
2002..	N	N	30 615	998 927	26 009	53 552	724 443	2 354 009	1 579 187	3 940 818	166 157
2001..	N	N	34 726	1 129 387	29 151	59 990	814 887	2 470 359	1 746 597	4 199 736	188 824
2000..	N	N	34 839	1 108 696	28 981	58 722	806 987	2 444 401	1 797 344	4 224 777	239 422
1999..	N	N	35 234	1 056 853	28 891	59 429	766 254	2 288 331	1 756 738	4 050 612	254 581
1998..	N	N	33 768	1 006 954	27 581	57 846	718 127	2 195 343	1 725 459	3 916 527	240 847
1997..	592	623									

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
331524, Aluminum foundries (except die-casting)												
United States	1	542	232	29 108	1 026 868	23 623	48 680	744 991	2 280 741	1 688 171	3 962 200	152 221
Alabama	—	13	4	952	31 600	755	1 761	20 732	27 034	94 401	121 063	4 919
California	2	76	31	2 119	70 065	1 773	3 733	47 927	131 734	73 638	204 526	7 519
Colorado	3	7	3	100	2 888	78	173	1 822	9 214	3 047	12 307	345
Connecticut	1	7	4	155	6 116	132	295	4 142	12 509	3 933	16 625	1 153
Florida	4	16	3	232	6 497	195	412	5 037	14 435	4 917	19 140	1 314
Illinois	2	32	10	773	28 223	620	1 236	18 143	59 274	32 146	91 499	3 472
Indiana	—	25	18	2 744	104 928	2 315	4 924	81 393	247 226	294 050	536 501	10 419
Iowa	1	12	3	360	11 097	309	719	8 303	27 689	17 110	44 099	2 901
Massachusetts	2	16	2	279	9 633	228	466	6 105	17 774	13 027	30 829	2 931
Michigan	—	35	16	1 498	51 882	1 180	2 424	35 130	136 995	84 174	220 757	11 746
Minnesota	1	10	7	1 334	41 994	1 106	2 023	30 929	91 278	48 519	140 362	4 548
New Hampshire	—	8	5	576	18 739	454	975	12 443	46 152	11 236	56 596	4 825
New Jersey	3	9	4	206	6 311	150	327	4 053	10 110	4 074	14 161	398
New York	—	21	13	1 236	63 772	1 024	1 992	51 041	86 746	113 592	201 065	9 487
Ohio	—	62	26	3 193	105 504	2 459	5 134	71 531	196 045	176 334	373 828	13 413
Oklahoma	5	10	3	158	4 957	101	222	3 202	9 550	4 618	13 862	511
Pennsylvania	—	35	17	1 504	48 303	1 226	2 505	36 543	110 566	45 438	154 376	8 998
Tennessee	—	8	3	628	25 590	588	1 191	22 867	76 526	58 680	133 768	8 929
Texas	1	29	12	831	25 272	666	1 434	16 178	49 908	32 831	82 535	3 735
Washington	—	9	6	842	34 593	642	1 277	22 439	84 386	27 206	111 043	4 388
Wisconsin	—	27	17	4 302	150 667	3 588	7 621	115 961	349 595	255 731	604 149	16 338

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
331524, Aluminum foundries (except die-casting)	
Companies ¹	number.. 508
All establishments ²	number.. 542
Establishments with 1 to 19 employees	number.. 310
Establishments with 20 to 99 employees	number.. 156
Establishments with 100 employees or more	number.. 76
All employees ³	number.. 29 108
Total compensation	\$1,000.. 1 314 775
Annual payroll	\$1,000.. 1 026 868
Total fringe benefits	\$1,000.. 287 907
Production workers, average for year	number.. 23 623
Production workers on March 12	number.. 23 350
Production workers on May 12	number.. 23 806
Production workers on August 12	number.. 23 707
Production workers on November 12	number.. 23 576
Production worker hours	1,000.. 48 680
Production worker wages	\$1,000.. 744 991
Total cost of materials	\$1,000.. 1 688 171
Materials, parts, containers, packaging, etc., used	\$1,000.. 1 389 472
Resales	\$1,000.. 34 555
Purchased fuels	\$1,000.. 73 686
Purchased electricity	\$1,000.. 71 993
Contract work	\$1,000.. 118 465
Quantity of electricity purchased for heat and power	1,000 kWh.. 1 348 721
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 2 216
Total value of shipments	\$1,000.. 3 962 200
Primary products value of shipments	\$1,000.. 3 564 959
Secondary products value of shipments	\$1,000.. 340 931
Total miscellaneous receipts	\$1,000.. 56 310
Value of resales	\$1,000.. 38 753
Contract receipts	\$1,000.. 6 902
Other miscellaneous receipts	\$1,000.. 10 655
Primary products specialization ratio	percent.. 91
Value of primary products shipments made in all industries	\$1,000.. 3 673 658
Value of primary products shipments made in this industry	\$1,000.. 3 564 959
Value of primary products shipments made in other industries	\$1,000.. 108 699
Coverage ratio	percent.. 97
Value added	\$1,000.. 2 280 741
Total inventories, beginning of year	\$1,000.. 306 225
Finished goods inventories	\$1,000.. 87 271
Work-in-process inventories	\$1,000.. 102 723
Materials and supplies inventories	\$1,000.. 116 231
Total inventories, end of year	\$1,000.. 309 660
Finished goods inventories	\$1,000.. 89 376
Work-in-process inventories	\$1,000.. 107 330
Materials and supplies inventories	\$1,000.. 112 954
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. 2 368 746
Total capital expenditures (new and used)	\$1,000.. 152 221
Buildings and other structures (new and used)	\$1,000.. 29 374
Machinery and equipment (new and used)	\$1,000.. 122 847
Automobiles, trucks, etc., for highway use	\$1,000.. 5 234
Computers and peripheral data processing equipment	\$1,000.. 8 381
All other expenditures for machinery and equipment	\$1,000.. 109 232
Total retirements	\$1,000.. 97 243
Gross value of depreciable assets at end of year	\$1,000.. 2 423 724
Depreciation charges during year	\$1,000.. 184 983
Total rental payments	\$1,000.. 38 817
Buildings and other structures	\$1,000.. 22 839
Machinery and equipment	\$1,000.. 15 978
Total other expenses ⁴	\$1,000.. 279 199
Response coverage ratio ⁵	percent.. 73
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 65 545
Communications services ⁴	\$1,000.. 7 147
Legal services ⁴	\$1,000.. 4 672
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 3 559
Advertising and promotional services ⁴	\$1,000.. 3 857
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 5 806
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 8 826
Management consulting and administrative services ⁴	\$1,000.. 10 972
Taxes and license fees ⁴	\$1,000.. 15 635
All other expenses ⁴	\$1,000.. 153 180

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
331524, Aluminum foundries (except die-casting)											
All establishments	1	542	29 108	1 026 868	23 623	48 680	744 991	2 280 741	1 688 171	3 962 200	152 221
Establishments with—											
1 to 4 employees	9	154	e	D	D	D	D	D	D	D	D
5 to 9 employees	9	85	550	19 881	447	907	13 668	40 079	22 188	62 323	4 046
10 to 19 employees	4	71	1 018	32 810	813	1 638	22 045	67 538	31 123	98 642	4 628
20 to 49 employees	2	115	3 694	117 984	3 036	6 262	81 005	245 840	114 949	362 515	14 617
50 to 99 employees	1	41	2 844	97 393	2 288	4 789	68 045	176 333	94 514	271 129	12 200
100 to 249 employees	—	49	7 707	261 142	5 992	11 988	175 782	537 055	446 033	980 828	41 421
250 to 499 employees	—	16	5 162	176 650	4 306	9 247	133 167	378 805	338 536	712 696	20 216
500 to 999 employees	2	10	6 273	257 624	5 106	10 619	199 818	657 108	530 446	1 186 328	42 430
1,000 to 2,499 employees	—	1	g	D	D	D	D	D	D	D	D
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	229	887	30 791	720	1 441	21 295	62 375	35 219	97 555	6 002

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
331524	Aluminum foundries (except die-casting)	542	29 108	1 026 868	23 623	48 680	744 991	2 280 741	1 688 171	3 962 200	152 221
3315240	Aluminum foundries.....	542	29 108	1 026 868	23 623	48 680	744 991	2 280 741	1 688 171	3 962 200	152 221

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
331524	Aluminum foundries (except die-casting)	2002.. N 1997.. N	X X	X X	3 673 658 3 581 465
3315240	Aluminum foundries	2002.. N 1997.. N	X X	X X	3 673 658 3 581 465
33152401	Aluminum and aluminum-base alloy sand castings (except cast aluminum cooking utensils)	2002.. N 1997.. N	X X	X X	1 389 355 1 358 007
3315240101	Aluminum and aluminum-base alloy sand castings (except cast aluminum cooking utensils) ¹	mil lb. 2002.. 208 1997.. 307	X X	S Q312.6	1 389 355 1 358 007
33152402	Aluminum and aluminum-base alloy permanent and semipermanent mold castings (except cast aluminum cooking utensils)	2002.. N 1997.. N	X X	X X	1 551 343 1 670 689
3315240206	Aluminum and aluminum-base alloy permanent and semipermanent mold castings (except cast aluminum cooking utensils) ¹	mil lb. 2002.. 85 1997.. 127	X X	P538.9 P614.7	1 551 343 1 670 689
33152403	Aluminum and aluminum-base alloy investment castings (except cast aluminum cooking utensils)	2002.. N 1997.. N	X X	X X	156 629 145 300
3315240311	Aluminum and aluminum-base alloy investment castings (except cast aluminum cooking utensils)	2002.. 41 1997.. 44	X X	X X	156 629 145 300
33152404	Other aluminum and aluminum-base alloy castings	2002.. N 1997.. N	X X	X X	372 541 304 597
3315240416	Nonelectric cast aluminum pressure cookers (household-type) and nonelectric cast aluminum cooking utensils	2002.. 3 1997.. 5	X X	X X	29 151 16 785
3315240421	Other aluminum and aluminum-base alloy castings, excluding die-castings (except cast aluminum cooking utensils) ¹	2002.. 40 1997.. 76	X X	X X	343 390 287 812
3315240Y	Aluminum foundries, nsk, total	2002.. N 1997.. N	X X	X X	203 790 102 872
3315240YWW	Aluminum foundries, nsk, for nonadministrative-record establishments	2002.. N 1997.. N	X X	X X	109 881 36 092
3315240YWY	Aluminum foundries, nsk, for administrative-record establishments	2002.. N 1997.. N	X X	X X	93 909 66 780

¹For additional detail, see Current Industrial Report MA331E, Nonferrous Castings.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
331524	Aluminum foundries (except die-casting)		
00900001	Total materials	X	1 389 472
	.....2002..	X	1 415 009
	.....1997..		
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	7 872
	.....2002..	X	7 082
	.....1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	657 556
	.....2002..	X	N
	.....1997..		
33149104	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	11 883
	.....2002..	X	N
	.....1997..		
33141934	Magnesium and magnesium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	32 137
	.....2002..	X	N
	.....1997..		
331000AG	All other nonferrous metal shapes and forms (excluding copper, aluminum, zinc, and magnesium-base alloy castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	D
	.....1997..		
00190034	Copper and copper-base alloy scrap (excluding home scrap)	X	D
	.....2002..	X	N
	.....1997..		
00190014	Aluminum and aluminum-base alloy scrap (excluding home scrap)	X	96 049
	.....2002..	X	N
	.....1997..		
00190079	Other nonferrous metal scrap (excluding home scrap)	X	15 507
	.....2002..	X	N
	.....1997..		
33299700	Industrial patterns	X	19 717
	.....2002..	X	21 279
	.....1997..		
33350003	Industrial dies, molds, jigs, and fixtures	X	D
	.....2002..	X	87 442
	.....1997..	X	6 671
001900A4	All other industrial and commercial machinery and computer equipment	X	3 186
	.....2002..	X	
	.....1997..		
21232005	Sand	X	26 381
	.....2002..	X	20 797
	.....1997..		
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds	X	8 420
	.....2002..	X	8 823
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	393 745
	.....2002..	X	D
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	23 826
	.....2002..	X	113 077
	.....1997..		

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.